

METHOD OF SHIELDING EFFLUENTS IN SPRAY DEVICESABSTRACT

This invention provides a unique gas shield or shroud surrounding the effluent of a thermal spray device that effectively can extend the working distance or standoff between the thermal spray device and the surface being coated. This invention provides a method of spraying materials, including ceramic materials and reactive materials, at a long standoff and a method of controlling the temperature of the effluent being deposited using heated gas shield.